

## **AMENDMENTS TO THE SPECIFICATION**

On page 7, line 19, immediately preceding the subheading of "Detailed Description of the Invention," please insert the following:

### **BRIEF DESCRIPTION OF THE DRAWINGS**

The invention can be better understood with reference to the following drawings. The components in the drawings are not necessarily to scale, emphasis instead being placed upon clearly illustrating the principles of the present invention. Moreover, in the drawings, like reference numerals designate corresponding parts throughout the several views.

FIG. 1 illustrates a conventional timing model for ISDN/ADSL systems.

FIG. 2 shows a block diagram illustrating a deployment guideline for ADSL systems implemented in accordance with the present invention.

FIG. 3 defines a DBMOL downstream spectral mask.

FIG. 4 defines an Annex AOL downstream spectral mask.

FIG. 5 depict the spectral compatibility of the A.X systems into First Group systems when a 24 Intra-Quad Interferers are assumed.

FIG. 6 depict the spectral compatibility of the A.X systems into First Group systems when a 24 Intra-Quad Interferers are assumed.

FIG. 7 depicts the spectral compatibility of the A.X into First Group systems for the case when Intra-Quad Interferer is assumed ( $A.X_1$ ).

FIG. 8 shows an ADSL+ overlapped mode PSD mask for CO deployment.

FIG. 9 illustrates the performance of 2.208 MHz band ADSL extended spectrum operating in the same bundle as TCM-ISDN.

FIG. 10 depicts an overlapped ADSL+PSD mask for CO deployment.

FIG. 11 depicts a non-overlapped ADSL+ PSD Mask for CO deployment.

FIG. 12 depicts an overlapped ADSL+ PSD Mask for Cabinet deployment.

FIG. 13 depicts a non-overlapped ADSL+ PSD Mask for Cabinet deployment.

FIG. 14 depicts an overlapped ADSL+ over ISDN PSD Mask for Central Office deployment.

FIG. 15 depicts a non-overlapped ADSL+ over ISDN PSD Mask for Cabinet deployment operating.

FIG. 16 illustrates exemplary results obtained using averaging over 32 TCM-ISDN periods.

FIG. 17 illustrates a simulated performance of an exemplary HTSU-R receiver utilizing a handshake symbol reduction rate of one-half for carrier set C43.

FIG. 18 is a graph of PILOT 64 SNR vs. distance, -140dBm/Hz white noise.

FIG. 19 is a graph of TTR 48 SNR vs. distance, -140dBm/Hz white noise.

FIG. 20 is a graph of PILOT 64 SNR vs. distance, 24 TCM-ISDN.

FIG. 21 is a graph of TTR 48 SNR vs. distance, 24 TCM-ISDN.

FIG. 22 is a graph of PILOT 32 SNR vs. distance, -140dBm/Hz white noise.

FIG. 23 is a graph of TTR 24 SNR vs. distance, -140dBm/Hz white noise.

FIG. 24 is a graph of PILOT 32 SNR vs. distance, 24 TCM-ISDN.

FIG. 25 is a graph of TTR 24 SNR vs. distance, 24 TCM-ISDN.

FIG. 26 illustrates the loop attenuation vs. frequency according to the number of bridge taps.